

FirstNet in 2018 and Beyond: Ensuring Promises Are Kept

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November 30, 2017



FirstNet's Journey



2001

 Radio communication challenges impact responding law enforcement, fire, EMS



FirstNet Created

2012

 Independent agency to deploy Public Safety Broadband Network



Consultation

2015-16

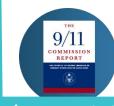
- Consultation in all 56 states/territories
- FirstNet works with states to collect and validate users and coverage data



Deployment

2017-22

 Nationwide deployment of the Public Safety Broadband Network



9/11 Commission

2004

- Recommends national radio spectrum for public safety purposes
- Public safety unites to advocate for broadband network



Outreach

2012-15

- Outreach to the public safety community
- Governors identify single points of contact (SPOC) for FirstNet



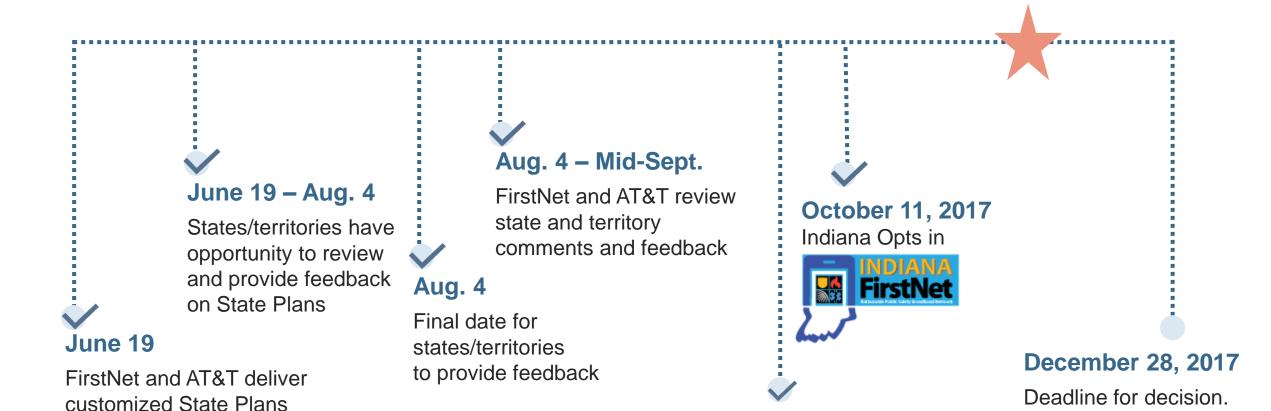
Partnership & Plans

2016-17

- Network RFP
- Partnership Award to AT&T
- Delivery of State Plans
- Governor's decision



FirstNet State Plans Timeline



September 29, 2017

and initiate the 90-day

decision period

FirstNet and AT&T provide

official notice to the governor



No response = Opt-in.

Consultation

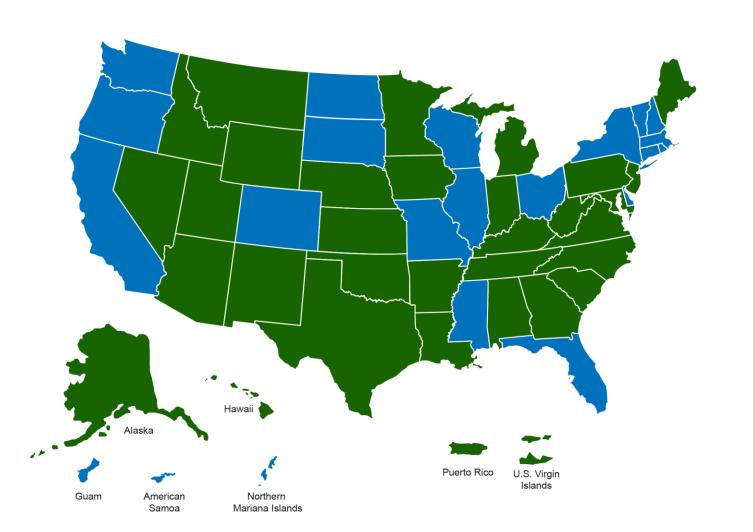
What We Heard

- "Coverage"
- ☐ "Same or lower cost"
- ☐ "We need this now"
- ☐ "Rural coverage critical"
- ☐ "Device & Apps Ecosystem"





33 "Opt-In" States | Territories





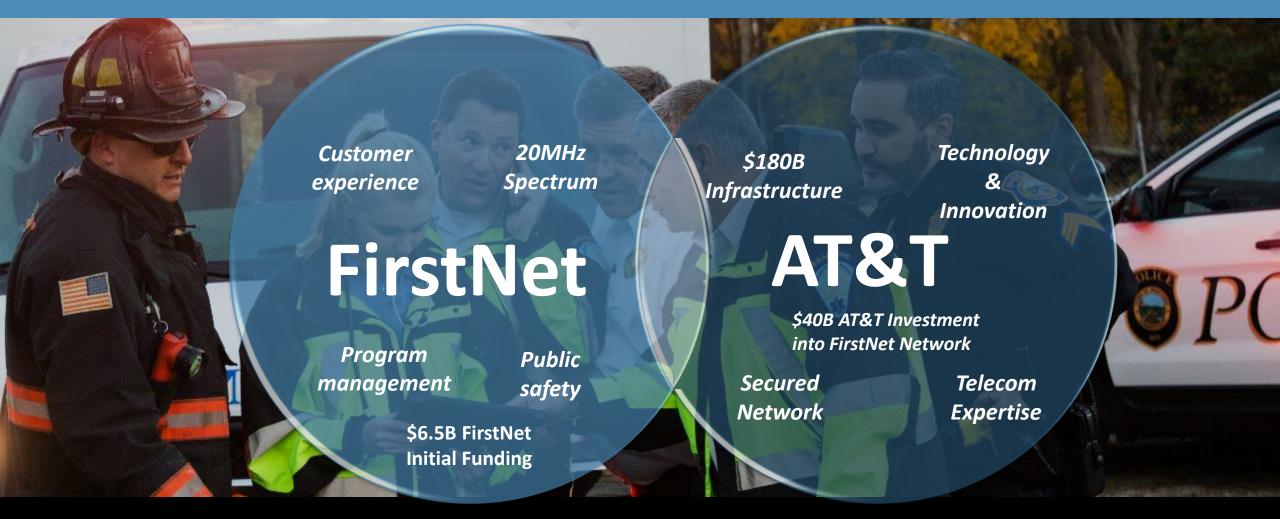
As of Nov. 25, 2017

- Alabama
- Alaska
- Arizona
- Arkansas
- Georgia
- Hawaii
- Idaho
- Iowa
- Indiana
- Kansas
- Kentucky
- Louisiana
- Maine
- Maryland
- Michigan
- Minnesota
- Montana

- Nebraska
- Nevada
- New Jersey
- New Mexico
- North Carolina
- Oklahoma
- Pennsylvania
- Puerto Rico
- South Carolina
- Tennessee
- Texas
- U.S. Virgin Islands
- Utah
- Virginia
- West Virginia
- Wyoming



Innovative Public-Private Partnership



Creating an infrastructure dedicated to public safety





Public Safety Priorities

Delivering on what public safety asked for

Public safety always gets priority

Highly secure network to meet public safety's data requirements

 Controlled access by public safety agencies for their users

Coverage where public safety operates

• Enhanced user experience



Transforming Public Safety Communications

IN







FirstNet - Dedicated to Excellent Customer Experience (CX)

MODERNIZED



Innovative apps and large devices ecosystem



Network improvements and upgrades over 25 years



Multi-layered, proven, cybersecurity and network security solutions

PRIORITIZED



Emergency communications receive highest Quality Priority & Preemption

Rapid deployment of network



Instant nationwide **coverage** leveraging existing infrastructure

SPECIALIZED



Nationwide coverage with access to deployables



Aggressive pricing for public safety



Dedicated 24/7/365 public safety helpdesk

Holding AT&T Accountable to Public Safety



25-Year Contract

- FirstNet has a 25 year contract with AT&T
- Contract has teeth to ensure that AT&T meets their obligations to the government, the states, and public safety



Buildout Milestones

- Following the decision process,
 FirstNet will issue task orders
 based on the State Plan (early 2018)
- This task order will have build out milestones as articulated within the State Plan and AT&T does not receive milestone payments if buildout milestones are not met



Public Safety Adoption

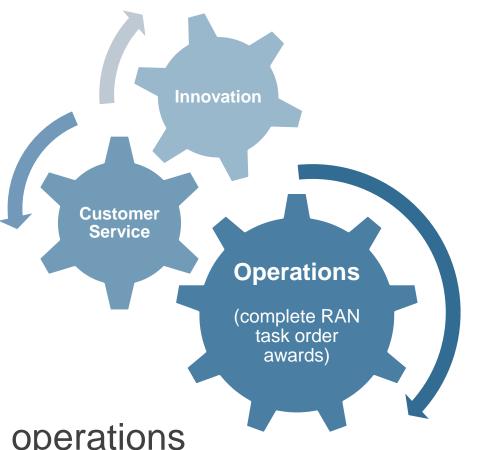
- AT&T is required to hit specific public safety adoption targets within Indiana
- If AT&T does not incentivize public safety to subscribe to the network, they can face \$billions of dollars in penalties throughout the country



FirstNet Priorities - 2018

- Initiate RAN build-out for opt-in states
- Innovation Lab to test current and future network features and capabilities
- Applications Ecosystem to evolve and deliver applications
- Complete FirstNet Core March 2018

Initiate Band 14 network and FirstNet field operations





Radio Access Network – Multi-Band Solution for Public Safety

Capacity

- Additional bandwidth
- Lower cost/bit as can often deploy more spectrum vs. new sites to add capacity

Coverage

 More sites & in-building DAS available to Public Safety communications

Time To Market

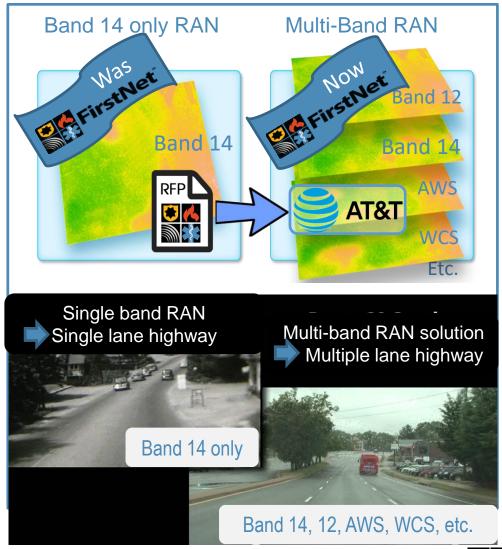
 Utilizing an established RAN network with legacy spectrum allows to launch Public Safety services sooner.

Resiliency

 Wireless interference tends to be band specific & multiple spectrum bands allows for alternative communication paths if one has interference

Faster Data Speeds

 Combining separate LTE bands (Carrier Aggregation) allows faster data speeds by combining multiple LTE spectrum





FirstNet Innovation & Test Lab



To Test:

- ✓ Quality of Service
- ✓ Priority
- ✓ Preemption
- ✓ Mission-Critical Services and Application











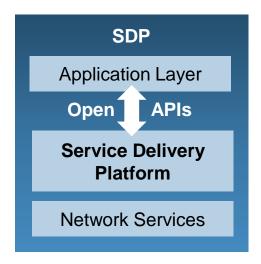
Applications Ecosystem











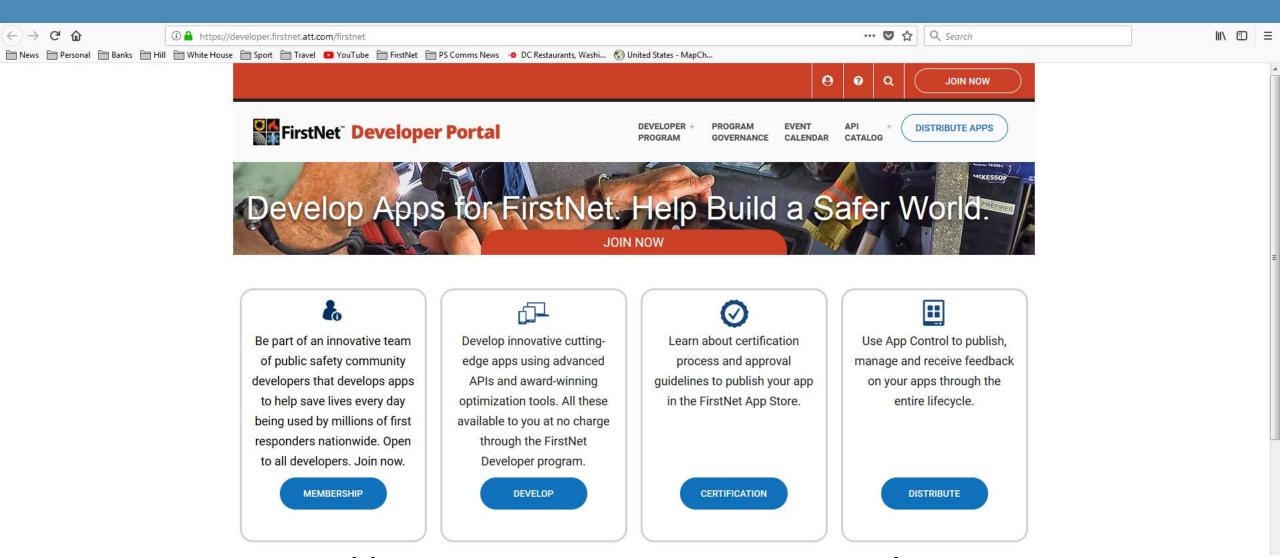








FirstNet Application Developer Portal



https://developer.firstnet.att.com/firstnet



Applications Standards Focus Areas

Applications Base Technologies

- Location apps
- Information exchange
- Situational awareness
- Data analytics
- Social media
- RT video



- E-citations & court systems
- Digital evidence
- Facial recognition
- Field reporting



- CAD systems
- Integrated dispatch
- NG 9-1-1
- Electronic citizen reporting
- Government records
- Alarm management



- Personnel biometrics
- Personnel location
- 3D building plans



- Electronic health records
- En-route collaboration
- Telemedicine

Future Technologies

- Z-axis acquisition
- MC-PTT
- MC-Data
- MC-Video
- P2P Apps
- IoT
- Virtual Assistants
- AR/VR
- ICAM



Where to go for FirstNet info

Two sites provide you complete information about this first-of-its-kind initiative:









FirstNet program, activities and the First Responder Network Authority

On this site:

- FirstNet mission and guiding principles
- FirstNet board and leadership
- FirstNet Public Safety Advisory Committee
- Consultation with public safety, states and territories
- State Plans Process and State Points of Contact
- The law that created FirstNet
- FirstNet Innovation and Test Lab



FirstNet network products and services and advantages for public safety

On this site:

- Quality of service, priority and preemption
- Local control features
- Application ecosystem
- Devices and accessories for FirstNet
- Coverage and rate plans
- FirstNet network FAQs
- Contact a FirstNet specialist



FirstNet News & Information

Visit our Website



www.firstnet.gov

- Blogs
- FAQs
- Fact Sheets
- Presentations
- Reports
- Calendar of Events

Contact your State, Territory or Association Representatives



State Single Points of Contact (SPOC):

www.firstnet.gov/consultation

Public Safety Advisory Committee (PSAC):

www.firstnet.gov/about/public-safety-advisory-committee

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